

ML 2017 LCCMR Recommendations Allocations Summary

Total Remaining Requested \$ =	\$101,243,707
ENRTF Dollars Available for ML 2017 Recs	\$59,256,000
TOTAL AMOUNT ALLOCATED =	\$59,256,000
ENRTF: Balance Left to Allocate =	\$0
% of \$'s Allocated =	100.00%

SUMMARY OF FY 2017 REQUESTS & RECOMMENDATIONS

Topic Area	Remaining # Requesting	Remaining \$ Amount Requested	% of Remaining Request	# Recommended	LCCMR Funding Recommendation	% of Dollars Available Recommended
Topic Area	100	\$101,243,707	100.00%	69	\$59,256,000	100.00%
A. Foundational Natural Resource Data and Information	17	\$16,620,760	16.42%	13	\$12,190,000	20.57%
B. Water Resources	18	\$18,627,126	18.40%	7	\$2,625,000	4.43%
C. Environmental Education	11	\$5,019,858	4.96%	8	\$4,288,000	7.24%
D. Aquatic and Terrestrial Invasive Species	12	\$11,823,168	11.68%	6	\$4,721,000	7.97%
E. Air Quality, Climate Change, and Renewable Energy	10	\$8,205,768	8.10%	6	\$3,338,000	5.63%
F. Methods to Protect, Restore, & Enhance Land, Water, & Habitat	12	\$6,758,954	6.68%	11	\$4,808,000	8.11%
G. Land Acquisition for Habitat and Recreation	7	\$18,822,625	18.59%	7	\$16,407,000	27.69%
H. Other	2	\$1,335,000	1.32%	2	\$1,335,000	2.25%
I. 2016 LCCMR Recommendations Removed from ML 2016 Bill	7	\$2,181,000	2.15%	6	\$1,994,000	3.37%
J. Governor Vetoed Appropriations	1	\$488,128	0.48%	0	\$0	0.00%
K. Proposals Received in Response to Extended Deadline	3	\$11,361,320	11.22%	3	\$7,550,000	12.74%

ML 2017 Environment and Natural Resources Trust Fund Allocations (2017 RFP)

TOTAL ALLOCATIONS = \$59,256,000

TOTAL BALANCE = \$0

Line #	Select	ID #	Project Title	Organization	\$ Requested	LCCMR \$ Recommended	Allocation Notes (Additional requirements/conditions apply to certain project recommendations than those listed below)
						ENRTF: ML 2017	
1		A. Foundational Natural Resource Data and Information (17 Proposals / Subtotal \$16,620,760)					
2	X	001-A	Minnesota Geological Survey Geologic Atlases for Water Management	U of MN - Minnesota Geological Survey	\$3,784,700	\$4,729,000	
3	X	002-A	What are the Public Benefits of Protecting Sourcewater?	U of MN	\$320,000	\$320,000	
4		003-A	Minnesota Trumpeter Swan Migration Ecology and Conservation	U of MN	\$462,433		
5	X	004-A	Healthy Prairies II: Preserving MN Prairie Plant Diversity	U of MN	\$938,000	\$900,000	
6		005-A	Enhancing Targeted and Measureable Watershed Restoration and Protection	Board of Water and Soil Resources	\$2,802,000		
7	X	006-A	Minnesota Biological Survey	MN DNR	\$2,955,861	\$2,900,000	
8	X	007-A	Continue Expansion of the Minnesota Wildflowers Online Botanical Reference	Minnesota Wildflowers Information	\$270,470	\$270,000	
9	X	009-A	Promoting Wild Rice Restoration Success by Examining Microbes	U of MN - Duluth NRR1	\$334,035	\$334,000	
10		010-A	Contaminants in Urban Soils: Understanding the Urban Environment	U. S. Geological Survey	\$1,000,000		
11	X	011-A	Drainage Records Modernization – Phase II, Cost-Share	Board of Water and Soil Resources	\$540,000	\$540,000	
12	X	012-A	Mapping Groundwater Contamination: Accessible Data to Protect Resources	MPCA	\$480,000	\$400,000	
13	X	013-A	Landslide Hazards and Impacts on Minnesota's Natural Environment	U of MN	\$672,408	\$500,000	
14	X	015-A	Non-Invasive Moose Calf Surveys and Ecosystem Monitoring	U of MN	\$348,151	\$348,000	
15	X	016-A	Cascading Effects of Wolf Recolonization	U of MN	\$398,000	\$398,000	
16	X	017-A	Effects of Wolves on Beavers, Moose, and Deer	Voyageurs National Park	\$293,000	\$293,000	
17		020-A	Lowland Conifer Ecosystems: Holistic Assessment for Adaptive Management	U of MN	\$763,702		
18	X	031-A	Minnesota's Freshwater Sponges: Mapping Taxonomy and Environmental Toxicology	U of MN	\$258,000	\$258,000	
19	13	Foundational Natural Resource Data and Information Subtotal =			\$16,620,760	\$12,190,000	

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20		B. Water Resources (18 Proposals / Subtotal \$18,627,126)					
21	X	033-B	Household Chemicals as Water Pollutants and Toxic Precursors	U of MN	\$236,000	\$236,000	
22	X	034-B	Innovative Nitrogen Removal Technology to Protect Water Quality	U of MN	\$476,100	\$450,000	
23	X	035-B	Rearing Native Mussels and Building Water Quality Awareness	Minnesota Zoo	\$591,925	\$591,000	
24		036-B	Rural Industrial Water Efficiency Impact on Drinking Water	U of MN	\$282,000		
25		038-B	Removing Plastic Particle Pollution from Minnesota Water Bodies	U of MN	\$359,540		
26		042-B	Restoring Agricultural Lakes and Watersheds by Managing Carp	U of MN	\$967,100		
27	X	044-B	Responsive Water Quality Monitoring: SEern Minnesota Trout Streams	Winona State University	\$583,980	\$500,000	
28		045-B	Buffer Gap Analysis	Board of Water and Soil Resources	\$1,390,656		
29		046-B	How Rapidly can Groundwater Quality be Improved?	U of MN	\$672,000		
30	X	048-B	Reassessing Toxicity of Petroleum Spills with New Technologies	University of St. Thomas	\$423,189	\$300,000	
31		051-B	New Self-Sustaining Nitrate and Pesticides Removal Biotechnology	U of MN	\$318,162		
32		052-B	The Minnesota Center for Water Treatment Technology Innovation	U of MN	\$10,306,899		
33		054-B	Preventing Fish Kills by Increasing Understanding	MN DNR	\$699,905		
34	X	055-B	Maximizing the Benefits of Water Reuse	U of MN	\$148,000	\$148,000	
35		058-B	Sulfate and Metal Removal from NE Minnesota Waters	U of MN	\$298,325		
36	X	059-B	Chemicals of Emerging Concern in Minnesota Fish	Grand Portage Band of Lake Superior Chippewa	\$436,922	\$400,000	
37		066-B	Continuous Nitrate Pollution Monitoring at the Kitchen Sink	U of MN	\$276,590		
38		074-B	Measuring Reductions in Nitrate Pollution from Precision Agriculture	University of St. Thomas	\$159,833		
39	7	Water Resources Subtotal =			\$18,627,126	\$2,625,000	

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40	C. Environmental Education (11 Proposals / Subtotal \$5,019,858)						
41	X	079-C	Floating Classroom: Connecting 20,000 Youth to Minnesota Waterways	Wilderness Inquiry	\$1,240,730	\$1,200,000	
42	X	081-C	Youth Convening Minnesota	Climate Generation: A Will Steger Legacy	\$310,008	\$300,000	
43	X	082-C	Increasing Diversity in Environmental Careers: Fellowships, Internships, Mentorships	MN DNR	\$1,487,519	\$1,487,000	
44	X	083-C	Minnesota Water Stories Told in Digital Planetariums	U of MN - Bell Museum of Natural History	\$622,000	\$500,000	
45	X	084-C	Bridging Classroom and Outdoor Learning by Studying Birds	U of MN	\$270,740	\$270,000	
46		085-C	Students Use Local Phenology to Understand Climate Variability	U of MN	\$240,000		
47		087-C	Market Science: Connecting Minnesotans to Environmental Research	U of MN	\$132,000		
48	X	092-C	Bird City - Education for Lasting Conservation	Audubon Minnesota	\$280,000	\$280,000	
49	X	100-C	Developing Watershed Stewardship in NW Minnesota Youth	Headwaters Science Center	\$71,861	\$121,000	
50	X	101-C	Providing Residential Environmental Learning Experiences to Under-Served Students	Audubon Center of the North Woods	\$130,000	\$130,000	
51		105-C	NE Minneapolis Sustainability Incubator	Holland Neighborhood Improvement Association	\$235,000		
52	8	Environmental Education Subtotal =			\$5,019,858	\$4,288,000	
53	D. Aquatic and Terrestrial Invasive Species (12 Proposals / Subtotal \$11,823,168)						
54	X	106-D	Using Science to Solve Minnesota's AIS problems - Phase II	U of MN	\$6,100,000	\$2,700,000	
55		107-D	Implementing Biological Control of Garlic Mustard	U of MN	\$421,987	\$0	- Funding will occur through existing ENRTF appropriations to Minnesota Invasive Terrestrial Plants and Pest Center.
56	X	108-D	EAB Biocontrol Phase III: Assessment and Citizen Engagement	Minnesota Department of Agriculture	\$729,540	\$729,000	
57		109-D	Quantifying Spiny Waterflea Threats to Minnesota Walleye Lakes	U. S. Geological Survey	\$1,690,320		
58		111-D	New Technology to Control Invasive Carp	U of MN	\$389,000		

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59		112-D	Mountain Pine Beetle Phase II: Protecting Minnesota	U of MN	\$384,838	\$0	- Funding will occur through existing ENRTF appropriations to Minnesota Invasive Terrestrial Plants and Pest Center.
60	X	114-D	Continuation of Invasive Carp and Native Fish Evaluation	MN DNR	\$739,064	\$500,000	
61		115-D	Impact of Zebra Mussels on Mercury in Fish	U of MN - Duluth	\$211,437		
62		117-D	Acquiring Key Information for a Carp Deterrent System at Lock and Dam #5	U of MN	\$284,000		
63	X	119-D	Adapting Stream Barriers to Remove Invasive Fish	U of MN	\$381,150	\$301,000	
64	X	122-D	Tactical Invasive Plant Management Plan Development	Minnesota Department of Agriculture	\$296,832	\$296,000	
65	X	123-D	Maximize Value of Water Impoundments to Wildlife	Audubon Minnesota	\$195,000	\$195,000	
66	6	Aquatic and Terrestrial Invasive Species Subtotal =			\$11,823,168	\$4,721,000	
67	E. Air Quality, Climate Change, and Renewable Energy (10 Proposals / Subtotal \$8,205,768)						
68		127-E	Managing for "Climate Smart" Trees and Forests	U of MN	\$385,000		
69	X	128-E	Cheap Solar Energy from Simple Roll-to-Roll Manufacturing	U of MN	\$388,852	\$388,000	
70	X	129-E	Community-Scale Energy Storage Guide for Clean Energy	U of MN	\$625,478	\$500,000	
71	X	131-E	Enabling Extraction of Solar Thermal Energy in Minnesota	U of MN	\$351,040	\$250,000	
72	X	132-E	Deploying New Technology to Understand Urban Air Pollution	MPCA	\$981,564	\$700,000	
73		137-E	Forest Regeneration: Maximizing the Value of Our Investment	U of MN - Duluth	\$732,046		
74	X	147-E	Generation, Storage, and Utilization of Solar Energy	U of MN	\$795,500	\$500,000	
75		149-E	Climate-Smart Cities: Helping Cities Make Smarter Land-Use Decisions	The Trust for Public Land	\$288,800		
76	X	150-E	District Heating with Renewable Biomass at Camp Ripley Training Center	Department of Military Affairs	\$1,969,988	\$1,000,000	
77		151-E	Renewable Energy Production from Municipal Organic Waste	Minnesota Energy Center (MNEC)	\$1,687,500		
78	6	Air Quality, Climate Change, and Renewable Energy Subtotal =			\$8,205,768	\$3,338,000	

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79	F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (12 Proposals / Subtotal \$6,758,954)						
80	X	152-F	Optimizing the Nutrition of Roadside Plants for Pollinators	U of MN	\$815,000	\$815,000	
81	X	153-F	Promoting Conservation Biocontrol of Beneficial Insects	U of MN	\$399,000	\$400,000	
82	X	154-F	Restoring and Preserving Savanna Using Bison	Cedar Creek Ecosystem Science Reserve, U of MN	\$388,000	\$388,000	
83	X	155-F	State Parks for Monarchs and Other Native Pollinators	MN DNR	\$672,159	\$672,000	
84	X	156-F	Prioritizing Shoreline Habitat Restoration in Minnesota Lakes	U of MN - St. Anthony Falls Laboratory	\$294,913	\$294,000	
85	X	157-F	Roadside Prairie Prescribed Fire	Minnesota Department of Transportation	\$345,000	\$345,000	
86	X	158-F	MN Honey Bee & Monarch Butterfly Partnership	Pheasants Forever	\$732,162	\$732,000	
87	X	160-F	Restoring 83-acres of Prairie, Savanna & Forest Habitat	Friends of the Mississippi River	\$213,450	\$213,000	
88	X	161-F	Restoring Our Metro Lands and Waters: MeCC 10	Great River Greening	\$524,400	\$524,000	
89	X	162-F	Precision Conservation and Agriculture: Growing Green2 Together	Pheasants Forever	\$508,370	\$400,000	
90		164-F	Identifying Optimal Soil Conditions for Sustainable Forest Management	U of MN	\$415,000		
91	X	167-F	Mississippi River Habitat Restoration at Halls Island	Minneapolis Park and Recreation Board	\$1,451,500	\$25,000	
92	11	Methods to Protect, Restore, and Enhance Subtotal =			\$6,758,954	\$4,808,000	
93	G. Land Acquisition for Habitat and Recreation (7 Proposals / \$18,822,625)						
94	X	169-G	Metropolitan Regional Parks System Land Acquisition	Metropolitan Council	\$2,400,000	\$1,500,000	
95	X	170-G	SNA Acquisition, Restoration, Citizen Science and Engagement	MN DNR	\$6,022,220	\$4,500,000	
96	X	171-G	Minnesota State Parks and State Trails Land Acquisition	MN DNR	\$1,500,000	\$2,538,000	- \$1,038,000 is to DNR for State Trails in the southern part of the state.
97	X	172-G	Native Prairie Stewardship and Prairie Bank Easement Acquisition	MN DNR	\$5,185,457	\$3,500,000	
98	X	174-G	Leech Lake Natural Resource Multi-Benefit Conservation Acquisition	Leech Lake Division of Resource Management	\$1,500,000	\$1,500,000	

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99	X	176-G	Mesabi Trail, Wetland Crossing and Bridge Rehab	St Louis and Lake Counties Regional Railroad Authority	\$1,231,500	\$2,269,000	
100	X	180-G	Tower Trailhead Boat Landing and Habitat Improvement	City of Tower	\$983,448	\$600,000	
101	7	Land Acquisition for Habitat and Recreation Subtotal =			\$18,822,625	\$16,407,000	
102	H. Other (2 Proposals / \$1,335,000)						
103	X	181-H	Contract Agreement Reimbursement	MN DNR	\$135,000	\$135,000	
104	X	N/A	LCCMR Administration	LCCMR	\$1,200,000	\$1,200,000	
105	2	Other Subtotal =			\$1,335,000	\$1,335,000	
106	I. 2016 LCCMR Recommendations Removed from ML 2016 Bill (7 Proposals / \$2,181,000)						
107		182-I	Minnesota Vegetative Buffer Assessment and Prioritization to Protect Water Quality	U of MN	\$170,000	\$0	
108	X	183-I	Techniques for Water Storage Estimates in Central Minnesota	U of MN	\$250,000	\$250,000	
109	X	184-I	Assessing Climate Change Effects on Release of Mercury and Sulfur into Aquatic Ecosystems	U of MN	\$300,000	\$300,000	
110	X	185-I	Workshops and Outreach for Nontoxic Ammunition Alternatives	U of MN	\$133,000	\$133,000	
111	X	186-I	Analysis of Thermally Modified Wood Nesting Boxes for Birds	U of MN - NRRI	\$117,000	\$100,000	
112	X	188-I	High-Resolution Climate Projections to Aid Local Planning and Implementation Efforts	U of MN	\$411,000	\$411,000	
113	X	189-I	Geotargeted Distributed Clean Energy Initiative	Center for Energy and Environment	\$800,000	\$800,000	
114	6	2016 LCCMR Recommendations Removed from ML 2016 Bill Subtotal =			\$2,181,000	\$1,994,000	
115	J. Governor Vetoed Appropriations (1 proposal / \$488,128)						
116		191-J	Real Wildlife, Real Conservation, Real Impact	Wildlife Science Center	\$488,128		
117	0	Governor Vetoed Appropriations Subtotal =			\$488,128	\$0	
118	K. Proposals Received in Response to Extended Deadline of 06/26/16 (3 Proposals / \$11,361,320)						
119	X	192-K	Voyageurs National Park Crane Lake Visitor Center Partnership	Town of Crane Lake	\$950,000	\$950,000	
120	X	193-K	Organic Weed Control Using Solar-Powered Robots	U of MN - Morris	\$1,650,000	\$600,000	

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121	<input checked="" type="checkbox"/>	196-K	CREP Implementation Phase 1	Board of Water and Soil Resources	\$8,761,320	\$6,000,000	- Contingent on Federal funding.
122	<input checked="" type="checkbox"/>	Proposals Received in Response to Extended Deadline Subtotal =			\$11,361,320	\$7,550,000	
123							
124		TOTAL \$ REQUESTS =			\$101,243,707	\$59,256,000	= TOTAL \$ RECOMMENDED